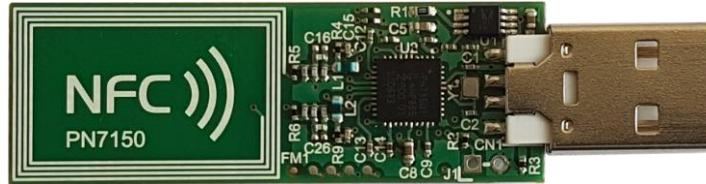


# NFC NXP-NCI USB dongle

## Mac OS X quick start guide

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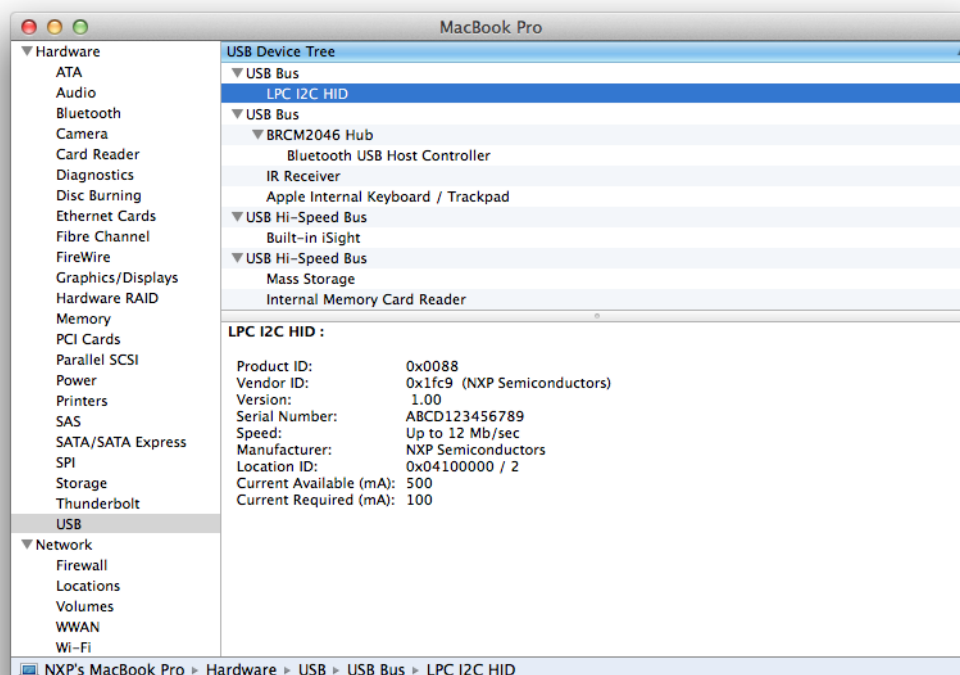


### General comments

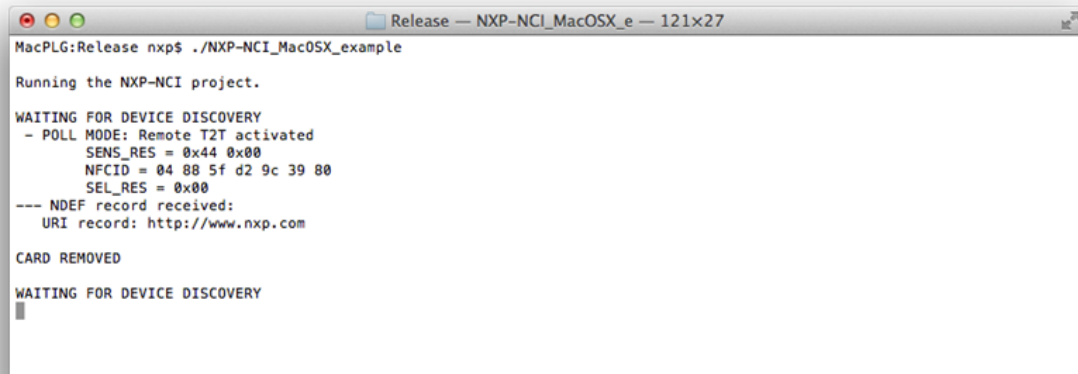
- The NFC functionality is insured thanks to [NXP PN7150 NFC Controller](#)
- USB interfaced is provided via HID standard thanks to [NXP LPC11u24 MCU](#)
- The dongle is supported under Mac OS X based devices through generic HID support of this operating system
- Example is provided to demonstrate full P2P functionality (reader, P2P and card emulation) of the NFC dongle

### Quick start

- The dongle is detected as “LPC I2C HID ” in the USB Device Tree :



- In a Terminal window, running provided “NXP-NCI\_MacOSX\_example” executable launches NFC discovery. Tapping a card generates such display:



```

MacPLG:Release nxp$ ./NXP-NCI_MacOSX_example

Running the NXP-NCI project.

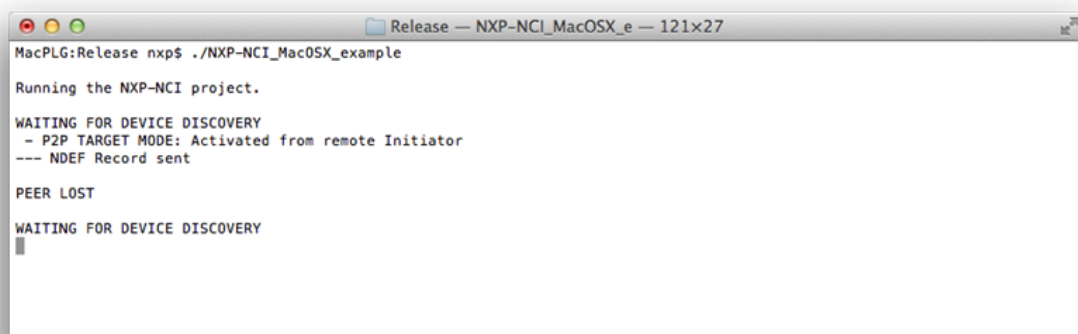
WAITING FOR DEVICE DISCOVERY
- POLL MODE: Remote T2T activated
  SENS_RES = 0x44 0x00
  NFCID = 04 88 5f d2 9c 39 80
  SEL_RES = 0x00
--- NDEF record received:
  URI record: http://www.nxp.com

CARD REMOVED

WAITING FOR DEVICE DISCOVERY

```

- While tapping a NFC phone triggers the reception of NDEF text record on the phone and the following log:



```

MacPLG:Release nxp$ ./NXP-NCI_MacOSX_example

Running the NXP-NCI project.

WAITING FOR DEVICE DISCOVERY
- P2P TARGET MODE: Activated from remote Initiator
--- NDEF Record sent

PEER LOST

WAITING FOR DEVICE DISCOVERY

```

## Building and debugging the example

- Example source code is delivered in the form of Eclipse C/C++ project
- Debugging requires [GDB](#) to be installed
- The project must be imported into [Eclipse C/C++ IDE](#):
  - File->Import...->Existing projects into Workspace->Select archive file
  - Select the NXP-NCI\_example.zip package
  - Tick the “NXP-NCI\_MacOSX\_example” project and click Finish button
- Build the project in “Debug” mode
- Then start “Debug As -> Local C/C++ Application” (in the “Debugger” tab point to ‘gdb’ executable)
- Note that the Debug configuration traces all NCI exchanges in the console (enabled according to NCI\_DEBUG definition inside GCC C Compiler Preprocessor defined symbols of the project properties)